

Master's Degree in Actuarial and Financial Sciences

- Know how to apply the knowledge acquired and solve problems related to their area of study.
- Use statistical and bibliographic sources related to the different economic and business sectors
- Formulate socially and ethically responsible judgments.
- Know the actuarial code of conduct as well as the most relevant rules of professional practice
- Have a broad knowledge of the legal, fiscal, regulatory and supervisory framework of institutions, companies and markets in the financial and insurance sector in the national and European context.
- Interpret the accounts and financial statements of insurance and financial companies.
- Know and evaluate the different alternatives of public and private social provision.
- Know and assess different economic and financial risks, thus providing a basis for decisions
- Understand and develop mathematical and statistical techniques relevant to actuarial work: models of survival, accident rate, pricing, forecasting and solvency.
- Understand stochastic processes and use them in financial and actuarial models
- Understand the fundamentals of financial mathematics and use them to value transactions, financial assets and derivative contracts
- Apply the criteria and principles of planning and actuarial control necessary for the proper functioning of operations involving risk transfer and coverage
- Justify financial decisions in conditions of uncertainty, as well as those related to asset valuation and portfolio selection
- Understand, develop and apply risk assessment models (standard and advanced) with respect to the capital requirements demanded of financial and insurance institutions (Basel III and Solvency II)
- Analyse contractual and customer protection regulations within the framework of financial and insurance product design, advice and risk management
- Write and interpret reports such as technical notes, expert assessments, or any other technical document in two official languages of the European Union.
- Build models adapted to the economic-business environment using modern information and computer technologies

For additional information, see the [Memorandum](#)